

CHARLOTTE CATHOLIC HIGH SCHOOL



*"The Soul of Education
is the Education of the Soul"*

Pius XI

Advanced Placement Courses 2025 – 2026

(page numbers correspond with the Curriculum Guide 2025-2026)

Advanced Placement Computer Science A

144

Grade: 11th, 12th

Elective

Prerequisites: A in Algebra II or B in Advanced or Honors Algebra II

Quality Points: A = 5

Computer Science A emphasizes object-oriented programming methodology with an emphasis on problem solving and algorithm development. It also includes the study of data structures and abstraction. Students completing the AP Computer Science course will be able to:

- Code fluently in an object-oriented paradigm using the programming language Java. Students will be familiar with and be able to use standard Java library classes from the AP Java subset.
- Design and implement computer-based solutions to problems in a variety of application areas.
- Use and implement commonly-used algorithms and data structures.
- Develop and select appropriate algorithms and data structures to solve problems.
- Read and understand a large program consisting of several classes and interacting objects.
- Identify the major hardware and software components of a computer system, their relationship to one another, and the roles of these components within the system.

This course meets daily for a full year. Students are required to take the AP exam in May.

Advanced Placement English 11
English Language and Composition

233

Grade: 11th

Required

Prerequisites: Honors English 10 with a **B- average** both semesters or Advanced English 10 with an **A- average** both semesters. Evidence-Based Reading and Writing test scores from the PSAT are taken into consideration in order to place students where they will be most successful.

Quality Points: A = 5

This course comprises much of the material covered in Honors English 11 Honors as well as the principles of rhetoric and argument. The course will prepare students for the required College Board Advanced Placement Test given in May. This demanding and challenging course will be offered to students who show the aptitude, desire, and work ethic for a college level course.

Advanced Placement English 12
English Literature and Composition

243

Grade: 12th

Required

Prerequisites: AP English Language and Composition with a **B-average** both semesters or Honors English 11 with an **A average** both semesters. Evidence-Based Reading and Writing test scores from the PSAT, SAT, or ACT are taken into consideration in order to place students where they will be most successful.

Quality Points: A = 5

This course includes all the essentials of Honors English 12 with the addition of several sophisticated texts and will prepare the student for the required College Board Advanced Placement Test given in May. This very demanding course is offered only to the student who shows the aptitude for the challenge of a college equivalent course in high school.

Advanced Placement English 12
English Language and Composition

244

Grade: 12th

Required

Prerequisites: Honors English 11 with a **B+ average** both semesters.
Evidence Based Reading and Writing test scores from the PSAT are taken into consideration in order to place students where they will be most successful.

Quality Points: A = 5

This course comprises much of the material covered in Honors English 12 as well as the principles of rhetoric and argument. The course will prepare students for the required College Board Advanced Placement Test given in May. This demanding and challenging course will be offered to students who show the aptitude, desire, and work ethic for a college level course.

Advanced Placement Statistics

646

Grade: 11th, 12th
Prerequisites: See below
Quality Points: A = 5

The AP Statistics course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding. (apcentral.collegeboard.org)

All students must take the AP Statistics exam in May.

Selection of students for this course will be based on the following:

1. A minimum B average in Advanced Pre-Calculus, Honors Pre-Calculus, Honors Calculus, AP Calculus, or a minimum A- average in Honors Algebra 2.
2. Current Math teacher recommendation
3. PSAT Math score and PSAT Evidence-Based Reading and Writing score. Minimum score 550.

Advanced Placement Calculus AB

645

Grade: 12th
Prerequisites: See below
Quality Points: A = 5

AP Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. (apcentral.collegeboard.org)

All students must take the AP Calculus AB exam in May.

Selection of students for this course will be based on the following:

1. Honors Pre-Calculus teacher recommendation.
2. Honors Pre-Calculus grade.
3. PSAT Math score.

Advanced Placement Calculus BC

651

Grade: 12th
Prerequisites: See below
Quality Points: A = 5

AP Calculus BC is roughly equivalent to both first and second semester college calculus courses and includes the content learned in Calculus AB while extending it to different types of equations and introduces the topic of sequences and series. The AP course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. (apcentral.collegeboard.org)

All students must take the AP Calculus BC exam in May.

Selection of students for this course will be based on the following:

1. Honors Pre-Calculus teacher recommendation.
2. Honors Pre-Calculus grade.
3. PSAT Math score.

Advanced Placement Biology

841

Grade: 11th, 12th

Elective

Prerequisites: Biology (with at least a B+ in Advanced Biology or an A in Biology), Honors Chemistry (with a B+ average), Honors Physics (may be taken concurrently) and the AP selection process.

Quality Points: A = 5

This course prepares the student to take the AP exam. It is designed for students who are strongly considering furthering their studies in the life sciences and/or medical fields. The course content includes in-depth study of biochemistry, energy flow and biochemical reactions, cellular metabolism, internal structure and organization of cells, heredity, evolution, population genetics, ecosystems and community interactions, and botanical and zoological diversity. AP labs and other labs are incorporated throughout the course. Students are involved in problem solving, doing experimentations, and writing essays on various topics. Students must take the AP Biology exam given in May. This class meets for a year.

The AP selection process will include consideration of PSAT scores, GPA, previous science grades, evaluation of current work, and departmental guidelines.

Advanced Placement Chemistry

842

Grade: 11th, 12th

Elective

Prerequisites: Biology, Honors Chemistry, (with at least a B+) Honors Algebra II (with at least a B+) or Advanced Algebra II (with an A average) Honors Physics (may be taken concurrently); and the AP selection process.

Quality Points: A = 5

AP Chemistry is designed as a second-year chemistry course. This is a highly intensive elective science covering the topics usually included in a first-year college level chemistry course. The course content includes an in-depth study of intermolecular forces, solutions, acids, and bases, equilibrium, kinetics, and thermodynamics. Laboratory activities follow curriculum content. Students are required to take the AP chemistry examination in May. This class meets for a year..

The AP selection process will include consideration of PSAT scores, GPA, previous science grades, evaluation of current work, and departmental guidelines.

Advanced Placement Environmental Science

843

Grade: 11th, 12th

Elective

Prerequisites: Biology, Honors Chemistry or Honors Physics and the AP selection process.

Quality Points: A = 5

This course covers topics usually included in a first year college course in environmental science. AP Environmental Science provides the student with the opportunity to understand interrelationships of the natural world, to investigate natural and man-made environmental problems and to explore ideas to prevent or solve these problems. Topics covered include renewable and nonrenewable resources, earth dynamics, cycling of matter, ecosystems, atmospheric dynamics, environmental quality, and energy production and development along with their local and global consequences. Students are involved in laboratory work, problem solving, research and fieldwork related to environmental issues. Four environmental community service hours are required each quarter, in addition to any service hours for religion. Students must take the AP Environmental exam in May. This class meets for a year.

The AP selection process will include consideration of PSAT scores, GPA, previous science grades, evaluation of current work, and departmental guidelines. Recommend: B+ in Honors Chemistry or Honors Physics and minimum PSAT/SAT verbal score of 550.

Advanced Placement Physics C: Mechanics

847

Grade: 12th

Elective

Prerequisites: Biology, Honors Physics (with at least an A-), and AP Calculus (may be taken concurrently.)

Quality Points: A = 5

This course is a full year in-depth study of Newtonian mechanics. The content includes kinematics, Newton's laws of motion, work, energy and power, systems of particles and linear momentum, circular motion and rotation, and oscillations and gravitation. The course is heavily lab based. Students will be required to keep a lab notebook. Students will be involved in problem solving that will include the use of calculus. Students must take the AP Physics exam given in May. This class meets for a year.

The AP selection process will include consideration of PSAT scores, GPA, previous science grades, evaluation of current work, and departmental guidelines. Recommend: A- in Honors Physics and strong math and reasoning skills.

Advanced Placement U.S. History

933

Grade: 11th

Required

Prerequisites: Students must undergo the normal AP selection process including submission of their World History grade, English grade, overall GPA and Evidence Based Reading and Writing PSAT scores. A minimum PSAT EBRW score of 530 is required to be considered for this course.

Quality Points: A = 5

This course includes the main topics that are taught in U.S. History, but will require much more reading including primary sources, and frequent short papers. The short papers are of two types: the Free-Response Essay and the Document-Based Question. Students are required to take the Advanced Placement U.S. History Exam given in May. This course meets daily for a full year.

Advanced Placement Psychology

962

Grade: 11th, 12th

Elective

Prerequisites: Students must undergo the AP selection process including consideration of their history grade, English grade, Evidence Based Reading and Writing PSAT scores. A minimum PSAT EBRW score of 550 is required to be considered for this course.

Quality Points: A = 5

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students will be exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They will also learn about the ethics and methods psychologists use in their science and practice. Students are required to take the AP Psychology exam given in May. This class meets daily for a full year.

Advanced Placement Microeconomics

948

Grade: 12th

Required

Prerequisites: Students must undergo the normal AP selection process including consideration of their Math grades, overall GPA, and PSAT scores. A minimum 1100 PSAT score is required to be considered for this course.

Quality Points: A = 5

The purpose of the AP course in Microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. Students are required to take the Advanced Placement Microeconomics exam given in May. This class meets daily for a semester.

Advanced Placement Macroeconomics**953**

Grade: 12th

Elective

Prerequisites: Students must undergo the normal AP selection process including consideration of their Math grades, overall GPA, and PSAT scores. A minimum 1100 PSAT score is required to be considered for this course.

Quality Points: A=5

Advanced Placement Macroeconomics will emphasize the study of national income and price-level determination and also develop students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth and international economics. Students must also take Advanced Placement Microeconomics 2nd semester to complete the requirements for graduation. Students must take both the Advanced Placement Macroeconomics and Microeconomics exams given in May. This class meets daily for the first semester.

Advanced Placement United States Government**944**

Grade: 12th

Required

Prerequisites: Students must undergo the normal AP selection process including consideration of their U.S History grade, English grade, overall GPA, and Evidence Based Reading and Writing PSAT scores. A minimum 550 PSAT-EBRW is required to be considered for this course.

Quality Points: A = 5

This is an advanced course in American government and political systems. Students will study the same topics as the traditional government class, but will have additional reading and writing assignments. This course enables the student to develop an understanding of the main principles and philosophies behind our modern political system, as well as an understanding of national and state governments and the constitutional and legal system. Students will be required to take the AP Government test in May. This course meets daily for a semester.

Advanced Placement European History

955

Grade: 11th or 12th

Prerequisite: At a minimum, students must have an **A-** both semesters in Honors English or a **B** in AP English. Students must also have an A- both semesters in Honors History or a **B** both semesters in AP U.S. History. A minimum PSAT EBRW score of 550 is required to be considered for this course.

Quality Point: A=5

AP European History, students study key events, figures, and developments from 1450 to the present. They practice historian skills such as analyzing sources, forming arguments, and understanding historical connections like comparison, causation, and change. The course also covers seven themes to link historical developments across time and place: Europe's global interaction, economic growth, cultural and intellectual shifts, power structures, social change, identity, and technological innovation. This course meets daily for a year. Students are required to take the AP exam in May.

AP Studio Art

358

Grade: 12th

Elective

Prerequisites: Honors Portfolio Prep with portfolio submission and Department Approval.

Quality Points: A = 5

AP Studio Art is a college equivalent course in which students create a 2D Design or a Drawing portfolio to be evaluated by the College Board. The AP portfolio submission focuses on the student's ability to recognize quality in her or his work, as well as drive a sustained investigation of a particular question through artmaking. Furthermore, students will be evaluated on their artistic growth, development of ideas, and will describe his or her artistic choices in writing. Self evaluation, class critique, artist research, experimentation, artmaking, and revision of artwork are key components of this class. Students must score a 3 or above to be awarded college credit. This class meets daily for a full year.

Advanced Placement French V

445

Grade: 12th

Elective

Prerequisites: An A in Honors French III or B in Honors French IV in both semesters and exams, and Department Approval.

Quality Points: A = 5

This course is equivalent to a college course. AP French is designed to advance the student's communicative ability in French within a culturally rich setting. Its main objectives are to further develop the ability to understand spoken French in a variety of contexts; to develop a vocabulary base for reading newspapers, literary text and other media without depending upon a dictionary; to improve the ability to express oneself in written and spoken French with reasonable fluency and accuracy. This class is taught by content where linguistic skills can be practiced and reviewed. Students enrolled in this course are required to take the AP French test in May.

On the cultural level, the student will continue to learn about geographical, historical, artistic, and everyday life and societal concepts of the French-speaking world; a Catholic component is also included. Aspects from the culture will be studied with reference to Catholic Social Teachings.

Advanced Placement German V

451

Grade: 12th

Elective

Prerequisites: An A in Honors German III or B in Honors German IV in both semesters and on exams and Department Approval.

Quality Points: A = 5

This course is equivalent to a college course. AP German is designed to advance the student's proficiency in all four language skills: listening, speaking, reading and writing. Materials used come from the Internet, magazines and newspapers, poetry, screenplays, biographies, etc. Current events as well as political, economic and social systems are discussed. The AP German Language and Culture course is structured around six themes: Global Challenges, Science and Technology, Beauty and Aesthetics, Families and Communities, Contemporary Life, Personal and Public identities. Students enrolled in this course are required to take the AP German exam in May.

On the cultural level, the student will continue to learn about geographical, historical, artistic, and everyday life and societal concepts of the German-speaking world; a Catholic component is also included. Aspects from the culture will be studied with reference to Catholic Social Teachings.

Advanced Placement Latin

448

Grade: 11th, 12th

Elective

Prerequisites: Minimum of an A- in both semesters of Honors Latin III or Honors Latin IV, A- test average for both semesters, and Department Approval.

Quality Points: A = 5

Students taking this course study the prescribed AP Latin Vergil and Caesar curriculum. The main objectives are to further widen the student's range of vocabulary, grammar, and syntax and to implement this range in order to appreciate the richness of the Latin poetry and prose. By speaking and discussing the readings in the target language, the students will learn to express the vocabulary and the grammar concepts that they have been taught. Students taking this course are required to take the AP Latin exam at the end of the school year.

On the cultural level, the student will learn about geographical, historical, artistic, and everyday life and societal concepts of ancient Rome; a Catholic component is also included. Aspects from the culture will be studied through the lens of Catholic Social Teachings.

**Advanced Placement Spanish V:
Language and Culture**

444

Grade: 11th, 12th

Elective

Prerequisites: Minimum of an A- in Spanish III (rising seniors only) or a B+ in Honors Spanish III or Honors Spanish IV in both semesters and Department Approval based on the ability to apply the language in writing, oral presentations, and reading comprehension.

Quality Points: A = 5

AP Spanish Language and Culture is designed for the student who has the ability to pursue a college level study in Spanish. Consideration will be given to exceptional students on a case by case analysis. Students will develop proficiencies across the full range of communication modes (Interpersonal, Presentational and Interpretive) It is a demanding and challenging course in which all students are required to take the AP exam at the end of the school year. The students are required to dedicate a considerable amount of time on a daily basis and to make frequent oral presentations in front of class and to complete the portfolio activities on AP Classroom. It will follow guidelines provided by the College Board.

On the cultural level, the student will continue to learn about geographical, historical, artistic, and everyday life and societal concepts of the Spanish-speaking world; a Catholic component is also included. Aspects from the culture will be studied with reference to Catholic Social Teachings.

**Advanced Placement Spanish VI:
Literature and Culture**

446

Grade: 12th

Elective

Prerequisites: Minimum of an A- in AP Spanish V Language and Culture. In addition to the grade requirements, a student must take the AP Spanish assessment (if needed) and Department Approval.

Quality Points: A = 5

This course uses a thematic approach to introduce students to representative texts (short stories, novels, poetry and essays) from Peninsular Spanish, Latin America, and the United States Hispanic Literature. Students will develop proficiencies across the full range of communication modes (interpersonal, presentational and Interpretive), thereby honing critical reading and analytical writing skills. Literature is examined within the context of its time and place, as students reflect on the many voices and culture present in the required readings. The course also includes a strong focus on cultural connections and comparisons, including exploration of various media (e.g. art, film, articles, literary criticism) All students are required to take the AP exam at the end of the school year. It will follow guidelines provided by the College Board.

On the cultural level, the student will continue to learn about geographical, historical, artistic, and everyday life and societal concepts of the Spanish-speaking world; a Catholic component is also included. Aspects from the culture will be studied with reference to Catholic Social Teachings.